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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/728,710	12/04/2003	Yoshie Iwakura	60419 (48882)	9935	
21874 75	590 06/13/2005		EXAMINER		
EDWARDS & ANGELL, LLP P.O. BOX 55874			CRENSHAW, MARVIN P		
BOSTON, MA 02205		ART UNIT	PAPER NUMBER		
			2854	2854	
		DATE MAILED: 06/13/2005			

Please find below and/or attached an Office communication concerning this application or proceeding.

	·	Application No.	Applicant(s)			
Office Action Summary		10/728,710	IWAKURA ET AL.			
		Examiner	Art Unit			
		Marvin P. Crenshaw	2854			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠	Responsive to communication(s) filed on 23 A	<u> March 2005</u> .				
2a)⊠	This action is FINAL . 2b) This	s action is non-final.				
3)	Since this application is in condition for allowa	nce except for formal matters, pro	secution as to the merits is			
	closed in accordance with the practice under	<i>Ēx par</i> te Quayle, 1935 C.D. 11, 45	3 O.G. 213.			
Disposition of Claims						
4)⊠	Claim(s) 1 - 25 is/are pending in the application	on.				
	4a) Of the above claim(s) is/are withdra	wn from consideration.				
5)[Claim(s) is/are allowed.					
	Claim(s) 1 and 18 - 23 is/are rejected.					
	7)⊠ Claim(s) <u>2 - 17, 24 and 25</u> is/are objected to.					
8)[_	Claim(s) are subject to restriction and/o	or election requirement.				
Applicati	on Papers					
9)[The specification is objected to by the Examine	er.	•			
10)⊠ The drawing(s) filed on <u>12/04/2033</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by the E	xaminer. Note the attached Office	Action or form PTO-152.			
Priority u	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
3) Inform	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te atent Application (PTO-152)			

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DETAILED ACTION

Allowable Subject Matter

Claims 2 – 17, 24 and 25 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is an examiner's statement of reasons for allowance:

With respect to claim 2, the prior art does not teach or render obvious the total combination as claimed including a paper transport apparatus wherein at least one of the pressure roller pair or pairs comprises one or more drive rollers and one or more idler rollers at least one of the drive roller or rollers comprises at least one metal roller and at least one of the idler roller or rollers comprises at least one electrically conductive elastic roller.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claims 1 and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Matsumura.

With respect to claim 1, Matsumura teaches a paper transport apparatus and method (Fig. 2) comprising one or more image carriers carrying toner (13) one or more transfer means (57), rotating and coming in contact with at least one of the image carrier or carriers, for causing one or more toner images formed on at least one of the image carrier or carriers to be electrostatically relocated onto one or more sheets of paper and one or more paper transport means (63) disposed upstream in one or more transport directions from at least one of the transfer means and comprising one or more pairs of pressure rollers (See Fig. 2, rollers arranged in 64) holding one or more lead edge portion or portions of at least one of the sheet or sheets of paper in one or more nips formed there between and rotating so as to cause transport of same, at least one of the paper transport means (Fig. 2, 64) being disposed to the side, on which at least one of the image carrier or carriers is present of a plane more or less tangent (Fig. 2) to at least one nip formed between at least one of the image carrier or carriers and at least one of the transfer means and at least one of the sheet or sheets of paper being transported from at least one of the paper transport means toward at least one of the transfer means.

With respect to claim 18, Matsurmura teaches a paper transport method for transporting one or more sheets of paper relative to one or more image forming means (Fig. 2) comprising one or more image carriers (13) carrying toner and one or more transfer rollers (57), rotating and coming in contact with at least one of the image

carrier or carriers for causing one or more toner images formed on at least one of the image carrier or carriers to be electrostatically relocated onto one or more sheets of paper, said paper transport method (Fig. 2, 64) including the steps of providing one or more paper transport means (See Fig. 2, rollers arranged in 64) disposed upstream in one or more transport directions from at least one of the transfer means and to the side on which at least one of the image carriers is present of a plane more or less tangent (Fig. 2) to at least one first nip formed between at least one of said image carrier or carriers and at least one of said transfer roller or rollers (See Fig. 2, rollers arranged in 64) said one or more paper transport means comprising one or more pairs of oppositely rotating pressure rollers holding one or more leading edge portion or portions of at least one of said sheet or sheets of paper in one or more second nips formed there between and transporting said at least one of the sheet or sheets of paper from at least one of said paper transport means toward at least one of said transfer roller or rollers.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 19 – 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsumura in view of Toyama et al.

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Matsumura teaches all that is claimed, as discussed in the above rejection of claims 1 and 18, except a paper transport method wherein one or more voltages is applied to the image carrier or carriers and the one or more pressure rollers.

Toyama et al. teaches a paper transport method (Fig. 1) wherein one or more voltages (See col. 11, lines 20 - 41), that is or are times in prescribed fashion and opposite in polarity to at least one electrostatic potential applied to at least one of the image carrier or carriers, is or are applied to one or more of said pressure rollers (See col. 11, lines 20 - 41), of said one or more paper transport means such that said one or more voltages (See col. 26, lines 4 - 15) is or are applied to only lead edge portion or portions of at least one of said sheet or sheets of paper transported to at least one of said image forming means, at least one length of at least one of the paper lead edge portion or portions at which voltage is applied is not so long as to substantially affect information contained in at least one image formed on at least one of the image carrier or carriers (See col. 11, 43 – 54), wherein at least one of the applied voltage or voltages is varied in accordance with difference in thickness attributable to type of transported paper, being increased with increasing thickness of the paper (See col. 11, lines 20 -30), wherein at least one absolute value of at least one maximum applied voltage is less than at least one absolute value of at least one surface potential to which at least one of the image carrier or carriers is charged (See col. 29, lines 1 - 16) and at least one absolute value of at least one maximum applied voltage is approximately equal to at least one absolute value of at least one development bias voltage which when applied to at least one of the transfer means would cause at least one latent electrostatic image

- 30).

on at least one of the image carrier or carriers to become manifest (See col. 25, lines 11

It would have been obvious to one of ordinary skill in the art to modify Matsumura to have a paper transport method wherein one or more voltages is applied to the image carrier or carriers and the one or more pressure rollers as taught by Toyama et al. so as to provide an efficient means for applying a charge to the paper while it is being transported through the printer so the toner particles will adhere to the paper and the image will not be distorted.

Response to Arguments

Applicant's arguments filed April 23, 2005 have been fully considered but they are not persuasive. Specifically, Matsumura teaches a paper transport apparatus. With respect to applicant's argument of "directing at least one of the sheets being transported towards at least one of the transfer means", he does. Matsumura teaches in Fig. 2, that the sheet is moved toward the transfer means. Matsumura sheet is directed in the direction of his transfer means which meets the applicant's claimed language of moving the sheet "towards the transfer means". Also, Toyama et al. teaches the modification of Matsumura of having the one or more voltages applied to the image carrier or carries.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marvin P. Crenshaw whose telephone number is (571) 272-2158. The examiner can normally be reached on Monday - Thursday 7:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Hirshfeld can be reached on (571) 272-2168. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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